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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,204	08/20/2003	Martin Lund	14226US02	5736
23446 7590 06/12/2008 MCANDREWS HELD & MALLOY, LTD 500 WEST MADISON STREET			EXAMINER	
			BOAKYE, ALEXANDER O	
SUITE 3400 CHICAGO, IL	60661		ART UNIT	PAPER NUMBER
			2616	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/644,204	LUND, MARTIN
Office Action Summary	Examiner	Art Unit
	ALEXANDER BOAKYE	2616
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed I the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 19 I This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allowatelessed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4)	awn from consideration. allowed.	
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the edrawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

Application/Control Number: 10/644,204 Page 2

Art Unit: 2616

DETAILED ACTION

Claim Rejections - 35 USC § 103

- **1.** The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17, 19, 20-23, 28-29, 40, 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gregg et al. (US Patent # 5,944,797) in view of m McTiffin (US Patent # 5,406,550).

Regarding claims 17,19, Gregg ('797) teaches a method of providing flow control in a communication system comprising (Fig. 1): establishing a bidirectional communication link (108) with a remote system. Gregg differs from the claimed invention in that Gregg does not teach embedding flow control data in a secondary communication channel of the communication link for use by a primary communication channel of the communication link. However, McTiffin teaches embedding flow control data in a secondary communication

Application/Control Number: 10/644,204

Art Unit: 2616

channel of the communication link for use by a primary communication channel of the communication link (column 1, lines 14-34). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of McTiffin into the system of Gregg with motivation being that it provides overflow of data.

Regarding claim 20, Gregg ('797) teaches that the secondary communication channel comprises start and stop packet codes (column 8, lines 50-60; packet codes corresponds to instructions).

Regarding claim 21, Gregg ('797) teaches that the secondary communication channel comprises start/stop symbols (the claimed start/stop symbol is inherent in state machine of Gregg (797).

Regarding claim 22, Gregg ('797) teaches that the transmission is suspended at the end of a word within a frame (see 904 of Fig. 9).

Regarding claim 23, the claimed flow control data is embedded in a secondary communication channel of the communications link from the second system to the first system is inherent in Fig. 1 of Gregg ('797).

Regarding claim 28, Gregg ('797) further teaches that communication link has at least two lines (column 3, lines 45-48).

Regarding claim 29, Gregg ('787) teaches that the communication link has at least four lanes (the claimed communication link with four lanes is inherent in the Fiber Optic Line).

Claim 40 is met as previously discussed with respect to claim 17.

Claim 46 is met as previously discussed with respect to claim 17.

Allowable Subject Matter

2. Claim 18 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-7, 12-13, 16, 32-39, 41-45 are allowable.

The following is a statement of reasons for the indication of allowable subject matter: As to claims 1-7, 12-13, 16, 35-37, 41, 42, 43, the prior art of record does not teach suspending the transmission of the frame of data without waiting for the end of the frame when the first receives a stop transmission request embedded in a secondary communication channel between the second system and the first system. As to claims 32-39, the prior art of record does not teach a controller operably coupled to a full-duplex communication link; wherein the controller includes an encoder that encodes a secondary channel, and a decoder that decodes a received communication channel, wherein the secondary communications channel includes word level coding, and the system stops transmission of data without waiting for the end of a packet in response to

word level commands received on the secondary communication channel. As to claim 38, 39, 44, 45 the prior art of record does not teach resuming transmission of the frame with the next word following the receipt of a start transmission code embedded in the secondary communication channel, wherein the secondary communication channel is formed from groups of enhanced coded data words occurring at regular intervals in a data frame.

Response to Arguments

3. Applicant's arguments with respect to claims 1-7, 12-13, 16-23, 28, 29,32-46 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Boakye whose telephone number is (571) 272-3183. The examiner can normally be reached on M-F from 8:30am to 6:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham, can be reached on (571) 272-3179. The Fax number is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published Application/Control Number: 10/644,204 Page 6

Art Unit: 2616

applications may be obtained from either Private PAIR or PUBLIC PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto..qov. Any inquiry of a general nature or relating to the status of this application or proceeding. Should be directed to the Electronic Business Center (EBC) numbers at 866-217-9197 and 703-305-3028.

/ALEXANDER BOAKYE/

Examiner, Art Unit 2616

6/08/2008